**Test Case Planning - UC03 Sprint 1**

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* **Use Case 1 - *Compare user data with healthy data***

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| **Test Case ID** | **TC01 - Correct assignment of heartrate result** |
| **Test Objective** | Determine whether the system displays the correct message given a heartrate and age |
| **Preconditions** | 1. User is logged in  2. User is on the Health Comparison tool page |
| **Test steps** | * Enter the age: 20, bpm, bp: 119/70, o2: 98, and gender: male * repeat for given inputs |
| **Input Values** | (age, bpm): 1. (20, 50) 2. (20, 70) 3.(20,200) |
| **Expected results** | "Your heart rate is bad": 1, 3  "Your heart rate is Good": 2 |

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| **Test Case ID** | **TC02 - Correct assignment of BP result** |
| **Test Objective** | Determine whether the system displays the correct message given BP |
| **Preconditions** | 1. User is logged in  2. User is on the Health Comparison tool page |
| **Test steps** | * Enter the age: 20, bpm: 100, bp, o2: 98, and gender: male * repeat for given inputs |
| **Input Values** | 1. 120/71 2. 120, 69 3. 118,71 4. 118, 69 |
| **Expected results** | "Your blood pressure is good!":4  "Your blood pressure is bad!": 1,2,3 |

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| **Test Case ID** | **TC03 - Correct Assignment of BO2 result** |
| **Test Objective** | Determine whether the systen displays the correct message given BO2 |
| **Preconditions** | 1. User is logged in  2. User is on the Health Comparison tool page |
| **Test steps** | * Enter the age: 20, bpm, bp: 119/70, o2, and gender: male * repeat for given inputs |
| **Input Values** | 1. 60 2. 94 3. 98 |
| **Expected results** | 1. "Cyanosis: Blood oxygen level is critically low."  2. "Your blood oxygen level is abnormal; the brain may be affected."  3. "Your blood oxygen level is normal." |

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| **Test Case ID** | **TC04 - Correct assignment of results based on input gender** |
| **Test Objective** | Determine whether the system displays the correct message given gender |
| **Preconditions** | 1. User is logged in  2. User is on the Health Comparison tool page |
| **Test steps** | * Enter the age: 20, bpm: 100, bp, o2: 98, and gender * repeat for given inputs |
| **Input Values** | 1. (BP: 118/69, Gender: Male), 2. (BP: 130/69, Gender: Male), 3. (BP: 99/67, Gender: Female), 4. (BP: 101/68, Gender: Female), |
| **Expected results** | 1."Your blood pressure is good!"  2."Your blood pressure is not good."  3."Your blood pressure is good!"  4."Your blood pressure is not good." |
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| **Test Case ID** | **TC05 - Correct assignment of results based on input age** |
| **Test Objective** | Determine if the result for BPM is accurate based on input age |
| **Preconditions** | 1. User is logged in  2. User is on the Health Comparison tool page |
| **Test steps** | * Enter the age, bpm, bp: 119/70, o2: 98, and gender: Male * repeat for given inputs |
| **Input Values** | (age, bpm): 1. (20, 50) 2. (20, 70) 3.(20,200) 4. (26, 60) 5. (26, 70) 6. (26, 180) |
| **Expected results** | "Your heart rate good!": 2, 5  "Your heart rate is not good.": 1, 3, 4, 6 |